Notice of Allowability	Application No.	Applicant(s)	
	09/369,776	DOI ET AL.	
	Examiner	Art Unit	
	Thu Ha T. Nguyen	2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *respond filed on 02/09/05-03/08/05*.

2. ☒ The allowed claim(s) is/are *1-11 and 13-16*.

3. ☐ The drawings filed on _____ are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 03/08/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

SALEH NAJJAR
PRIMARY EXAMINER

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Applicants' Representative, Mr. Thomas J. Bean (Reg. No. 44,528), on May 19-27, 2005.

3. The application has been amended as follow:

In the claims:

4. Claim 12 is cancelled without prejudice.

5. Claims 1, 11, and 16 are amended as following:

1. (Currently Amended) A method of controlling a network which includes a plurality of network elements connected via a plurality of links, and provides a plurality of communications services to end-users of the network, said method comprising the steps of:

creating view-configuration information based on network-configuration information with respect to each of the plurality of communications services such that the view-configuration information is related to the network-configuration information;

registering the view-configuration information and the network-configuration information in a database, said registered view-configuration information and registered network-configuration information being further capable of being updated;

[, said view configuration information providing a basis for] creating a plurality of communications service-specific views of the network that correspond to [the] respective one of the communications services, wherein each communications service-specific view includes ones of the plurality of networks elements and ones of the plurality of links that are required for providing an associated communications service to the end-users of the network; [and]

displaying a selected one or more of the communications service-specific views by presenting each selected view based on the view-configuration information for respective one [with respect to each] of the communications services, said selected [each] view including both or either one of a plurality of a physical network configuration of the network and a logical network configuration of the network;

providing matches between failure levels and failure labels with respect to different types of failures, the failure levels indicating significance of failures either as physical failures or as communications service failures; and

displaying a failure level of a failure occurring in the network in association with the displaying of the selected view.

11. (Currently amended) A system for controlling a network including a plurality of network elements and a plurality of links, said system comprising:

a database which stores network-configuration information and view-configuration information such that the view-configuration information is related to the network-configuration information;

a service-management server which attends to registering and updating of the information stored in the database, and defines communications service-specific views of a physical network configuration and a logical network configuration with respect to each of a plurality of communications services provided to end-users of the network, based on the view-configuration information stored on said database, wherein each communications service-specific view includes ones of the plurality of network elements and ones of the plurality of links that that are required for providing an associated communications service to the end-users of the network;

a network-management server which collects information on configurations of the network elements and the links as well as information on failures, and informs said service-management server of a change in at least one of the configurations and the failures for a purpose of said updating; and

a client which displays both or either one of the physical network configuration and the logical network configuration with respect to said client's own communications service by selecting one of the communications service-specific views that corresponds to said client's own communications service,

wherein said network-management server includes a failure-level-conversion table that provides matches between failure levels and failure labels with respect to different types of failures, the failure levels indicating significance of failures either as

physical failure or as communications service failures, and wherein the client displays a failure level of a failure occurring in the network in associated with the displaying of selected view.

16. (Currently amended) (Currently Amended) A method of controlling a network which includes a plurality of network elements connected via a plurality of links, and provides a plurality of communications services to end-users of the network, said method comprising the steps of:

creating view-configuration information based on network-configuration information with respect to each of the plurality of communications services such that the view-configuration information is related to the network-configuration information;

registering the view-configuration information and the network-configuration information in a database, said registered view-configuration information and registered network-configuration information being further capable of being updated;

[, said view configuration information providing a basis for] creating a plurality of communications service-specific views of the network that correspond to [the] respective one of the communications services, wherein each communications service-specific view includes ones of the plurality of networks elements and ones of the plurality of links and ones of a plurality of logical links that are required for providing an associated communications service to the end-users of the network; [and]

displaying a selected one or more of the communications service-specific views by presenting each selected view based on the view-configuration information for respective one [with respect to each] of the communications services, said selected

[each] view including both or either one of a plurality of a physical network configuration of the network and a logical network configuration of the network;

providing matches between failure levels and failure labels with respect to different types of failures, the failure levels indicating significance of failures either as physical failures or as communications service failures; and

displaying a failure level of a failure occurring in the network in association with the displaying of the selected view.

Reasons for Allowance

6. Claims 1-11 and 14-16 are allowed.

7. Claim 12 is cancelled.

The following is an examiner's statement of reasons for allowance: The prior arts of record teaches and discloses a system for operating, managing and displaying sub-networks and other topological components of a network, wherein determining whether the logical configuration figure satisfies a logical-numeric-condition of a network device and displaying specified equipment at specified physical location. However, the invention has some particular combination limitations that are different and distinct from prior arts (see applicant's remarks filed on February 09, 2005 which points out the reason claims are distinguishable and patentable over the prior art of record). Among the differences between claimed invention and the prior art of record, the major difference is the combination of a method and system for creating view-configuration information based on network-configuration information by providing a basis for creating a plurality of communications service-specific views of the network that corresponds to

the respective communication services wherein each communications service-specific view includes ones of the plurality of networks elements and ones of the plurality of links and ones of a plurality of logical links that are required for providing an associated communications service to the end-users of the network; registering the view-configuration information and the network-configuration information in a database, said registered view-configuration information and registered network-configuration information being further capable of being updated; displaying a selected one or more of the communications service-specific views by presenting each selected view based on the view-configuration information for respective one of the communications services; providing matches between failure levels and failure labels with respect to different types of failures, the failure levels indicating significance of failures either as physical failures or as communications service failures; and displaying a failure level of a failure occurring in the network in association with the displaying of the selected view are novel, thus the invention is patentable.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Ha Nguyen, whose telephone number is (703) 305-7447. The examiner can normally be reached Monday through Friday from 8:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne, can be reached at (571) 272-4001.

Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

The fax number for art unit 2155 is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thu Ha Nguyen

May 27, 2005

SALEH NAJJAR
PRIMARY EXAMINER